

PERPENDICULAR MAGNETIC RECORDING MEDIUM AND MANUFACTURE THEREOF

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Abstract

PROBLEM TO BE SOLVED: To decrease medium noise and to improve recording density dependency of a reproduction output voltage.

SOLUTION: The perpendicular magnetic recording medium 10 has a Cr film 14, a base soft magnetic film 16, and perpendicular magnetic film 18 formed on substrate 12 in this order. Film thickness t of Cr film 14 exceeds 1 nm and does not exceed 17 nm, and it is desired to be thicker than 2 nm and not thicker than 15 nm. The Cr film 14 having such film thickness t is very excellent in surface smoothness. Therefore, a base soft magnetic films 16 laminated on the Cr film 14 also reflects the surface smoothness of the Cr film 14, and becomes very excellent in the surface smoothness. Therefore, since the perpendicular magnetic films 18 laminated on the smooth surface of the base soft magnetic film 16 is reduced in the film thickness of an initial layer, medium noise is decreased.

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